## **CLAIMS**

We claim:

A method of making a weak acid cation exchange resin comprising: 1. converting a swollen form weak acid cation exchange resin to a converted, unswollen form weak acid cation exchange resin, and steam cleaning the converted, unswollen form weak acid cation ion exchange resin to obtain a cleaned weak acid cation exchange resin in an unswollen form.

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The method of claim 1 in which the unswollen weak acid cation exchange resin is selected from one or more copolymers of crosslinked poly(acrylic acid), crosslinked poly(methacrylic acid), hydrolyzed  ${\it crosslinked poly} ((C_1\text{-}C_4)alkyl \ acrylate) \ and \ hydrolyzed \ crosslinked$ poly(acrylonitrile).

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The method of claim 1 in which the converted, unswollen, weak acid 3. cation exchange resin is contacted with 2 to 5 kilograms of steam per kilogram of hydrogen-form weak acid cation exchange resin.

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- The method of claim 1 in which the converted, unswollen, weak acid 4. cation exchange resin is contacted with steam for 2 to 4 hours.
- The method of claim 1 in which the converted, unswollen weak acid 5. cation exchange resin is contacted with a peroxide.

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- A resin made by the method of claim 1. 6.
- A system or product comprising the resin of claim 1. 7.

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The system or product of claim 7 in which said system is selected 8. from the group consisting of a pharmaceutical purification system, an a consumer water treatment industrial water treatment system,

system, and a catalytic system, and in which said product is selected from the group consisting of a water purification jug, a water purification cartridge, and combinated cartridge and jug.

- 9. A downstream product made using the resin of claim 1.
- 10. The downstream product of claim 9 selected from the group consisting of a pharmacuetical ingredient, a pharmaceutical excipient, a purified water, and a high purity water.

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